# **SIEMENS**

Product data sheet

## 3RT2016-1AP02

CONTACTOR, AC-3, 4KW/400V, 1NC, AC 230V, 50/60 HZ, 3-POLE, SZ S00 SCREW TERMINAL

General technical data:		
Product brand name		SIRIUS
Product designation		3RT2 contactor
Size of the contactor		S00
Protection class IP / frontal/front side		IP20
Degree of pollution		3
Altitude of installation site / at a height over sea level / maximum	m	2,000
Ambient temperature		
during storage	°C	-55 80
during the operating phase	°C	-25 60
during transport	°C	-55 80
Resistance against shock		9.8g / 5 ms and 5.9g / 10 ms
Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	690
Resistive loss		
• per conductor / typical	W	0.7
Apparent loss power / of the magnet coil / at AC / typical	V·A	4.2
Item designation		
<ul> <li>according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		к
according to DIN EN 61346-2		Q
Mechanical operating cycles as operating time		
of the contactor / typical		30,000,000
• of the contactor with added auxiliary switch block / typical		10,000,000
<ul> <li>of the contactor with added electronics-compatible auxiliary switch block / typical</li> </ul>		10,000,000
Main circuit:		
Number of poles / for main current circuit		3
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		3
Operating voltage / at 3 AC / rated value		

• at 40 °C ambient temperature / rated valueA22• at 60 °C ambient temperature / rated valueA9• at AC-2 / at 400 V/ rated valueA9• at AC-2 / at 400 V/ rated valueA9• at AC-4 / at 400 V/ rated valueA8.5• at AC-4 / at 400 V/ rated valueA20• at AC-4 / at 400 V/ rated valueA20• at AC-4 / at 400 V/ rated valueA20• at 10 V/ rated valueA20• at 110 V/ rated valueA20• at 24 V/ rated valueA20• at 24 V/ rated valueA20• at 140 V/ rated valueA20• at 240 V rated valueA20• at 240 V rated valueA20• at 420 V rated valueA20• at 420 V rated valueA20• at 400 V rate	• maximum	V	690
• at 40 °C ambient temperature / rated valueA22• at 60 °C ambient temperature / rated valueA20• at AC3 / at 400 V / rated valueA9• at AC3 / at 400 V / rated valueA9• at AC3 / at 400 V / rated valueA8.5• at AC4 / at 400 V / rated valueA20• at AC4 / at 400 V / rated valueA20• at 24 V / rated valueA20• at 100 V / rated valueA20• at 24 V / rated valueA20• at 100 V / rated valueA20• at 100 V / rated valueA20• at 100 V rated valueA20• at 100 V rated valueA20• at 24 V / rated valueA20• at 24 V / rated valueA20• at 24 V rated valueA <td>Operating current / at AC-1 / at 400 V</td> <td></td> <td></td>	Operating current / at AC-1 / at 400 V		
Operating current         A         9           • at AC-2 / at 400 V / rated value         A         9           • at AC-3 / at 400 V / rated value         A         9           • at AC-4 / at 400 V / rated value         A         9           • at AC-4 / at 400 V / rated value         A         9           • at AC-4 / at 400 V / rated value         A         20           • at AC-1 / rated value         A         20           • at 110 V / rated value         A         20           • at 110 V / rated value         A         20           • at 110 V / rated value         A         20           • at 110 V / rated value         A         20           • at 110 V / rated value         A         20           • at 110 V / rated value         A         20           • at 110 V / rated value         A         20           • at 110 V / rated value         A         20           • at 110 V / rated value         A         20           • at 110 V / rated value         A         20           • at 110 V / rated value         A         20           • at 100 V / rated value         A         20           • at 100 V / rated value         A         20 <tr< td=""><td><ul> <li>at 40 °C ambient temperature / rated value</li> </ul></td><td>А</td><td>22</td></tr<>	<ul> <li>at 40 °C ambient temperature / rated value</li> </ul>	А	22
• at AC-2 / at 400 V / rated valueA9• at AC-3 / at 400 V / rated valueA9• at AC-4 / at 400 V / rated valueA8.5• with 1 current path / at DC-1• at 124 V / rated valueA20• at 110 V / rated valueA20• with 2 current paths in series / at DC-1-• at 24 V / rated valueA20• at 110 V / rated valueA20• with 3 current paths in series / at DC-1-• at 24 V / rated valueA20• with 3 current paths in series / at DC-1-• at 24 V / rated valueA20• with 3 current paths in series / at DC-1-• at 24 V / rated valueA20• with 3 current paths in series / at DC-5-• at 24 V / rated valueA20• with 2 current paths in series / at DC-3 / at DC-5-• at 24 V / rated valueA20• with 2 current paths in series / at DC-3 / at DC-5-• at 24 V / rated valueA20• with 2 current paths in series / at DC-3 / at DC-5-• at 24 V / rated valueA20• with 3 current paths in series / at DC-3 / at DC-5-• at 24 V / rated valueA20• at 300 V / rated valueA20• at 300 V / rated valueA20• at 300 V / rated valueKW4• at 300 V / rated valueKW4• at 300 V / rated valueKW4• at 300 V	<ul> <li>at 60 °C ambient temperature / rated value</li> </ul>	А	20
• at AC-3/ at 400 V/ rated valueA9• at AC-4/ at 400 V/ rated valueA8.5• with 1 current path / at DC-1-• at 24 V/ rated valueA20• at 110 V/ rated valueA20• with 2 current paths in series / at DC-1-• at 24 V/ rated valueA20• at 10 V/ rated valueA20• with 3 current paths in series / at DC-1-• at 24 V/ rated valueA20• with 3 current paths in series / at DC-1-• at 24 V/ rated valueA20• at 10 V/ rated valueA20• at 10 V/ rated valueA20• at 10 V/ rated valueA20• at 24 V/ rated valueA20• at 10 V/ rated valueA20• at 10 V/ rated valueA20• at 24 V/ rated valueA20• at 30 V/ rated valueA20• at 30 V/ rated valueA20• at 30 V/ rated valueA20• at 40 V/ rated valueA20• at 400 V/ rated valueA20• at 400 V/ rated valueKW4• at 400 V/ rated valueKW4• at 400 V/ rated value<	Operating current	_	
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• with 1 current path / at DC-1I• at 24 V / rated valueA20• at 110 V / rated valueA21• with 2 current paths in series / at DC-1V• at 24 V / rated valueA20• at 110 V / rated valueA20• with 3 current paths in series / at DC-1V• at 24 V / rated valueA20• with 3 current paths in series / at DC-1V• at 24 V / rated valueA20• at 10 V / rated valueA20• with 1 current path / at DC-3 / at DC-5V• at 24 V / rated valueA20• with 2 current paths in series / at DC-3 / at DC-5V• at 24 V / rated valueA20• with 2 current paths in series / at DC-3 / at DC-5V• at 10 V / rated valueA20• at AC-3V4• at AC-3A20• at AC-3A20• at AC-3A20• at AC-3A20• at AC-4A20• at AC-3A20• at AC-3A20• at AC-4A20• at AC-4A20<	• at AC-3 / at 400 V / rated value	А	9
• at 24 V / rated valueA20• at 110 V / rated valueAA2.1• with 2 current paths in series / at DC-1-• at 24 V / rated valueAA20• at 110 V / rated valueAA12• with 3 current paths in series / at DC-1• at 24 V / rated valueAA20• at 110 V / rated valueAA20• at 24 V / rated valueAA20• at 110 V / rated valueAA20• with 1 current path / at DC-3 / at DC-5-• at 24 V / rated valueAA20• at 110 V / rated valueAA20• at 24 V / rated valueAA20• at 24 V / rated valueAA20• at 110 V / rated valueAA20• at 24 V / rated valueAA20• at 40 V / rated valueAA20• at 40 V / rated valueAA20• at 400 V / rated valueAA20• at 400 V / rated valueKW4• at 400 V / rated valueKW	• at AC-4 / at 400 V / rated value	А	8.5
• at 110 V/ rated valueA2.1• with 2 current paths in series / at DC-1A20• at 110 V/ rated valueA12• with 3 current paths in series / at DC-1• at 24 V/ rated valueA20• with 1 current paths in series / at DC-3A20• with 1 current path at DC-3 / at DC-5• at 24 V/ rated valueA20• with 1 current path at DC-3 / at DC-5• at 24 V/ rated valueA0.1• with 2 current paths in series / at DC-3 / at DC-5-• at 24 V/ rated valueA20• with 2 current paths in series / at DC-3 / at DC-5-• at 24 V/ rated valueA20• with 3 current paths in series / at DC-3 / at DC-5-• at 24 V/ rated valueA20• at 40 V / rated valueA20• at AC-2 / at 400 V / rated valueA20• at AC-3• at AC-3• at AC-4 / at 400 V / rated valueKW4• at AC-4 / at 400 V / rated valueKW4• at AC-4 / at 400 V / rated valueKW4• at AC-4 / at 400 V / rated valueKW4• at AC-4 / at 400 V / rated valueKW4• at AC-4 / at 400 V / rated valueVar0 <td>• with 1 current path / at DC-1</td> <td></td> <td></td>	• with 1 current path / at DC-1		
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• at 24 V / rated valueA20• at 110 V / rated valueA12• at 24 V / rated valueA20• at 24 V / rated valueA20• at 110 V / rated valueA20• with 1 current path / at DC-3 / at DC-5• at 24 V / rated valueA20• at 10 V / rated valueA20• at 10 V / rated valueA20• at 24 V / rated valueA20• at 24 V / rated valueA20• at 24 V / rated valueA20• at 10 V / rated valueA20• at 10 V / rated valueA20• at 110 V / rated valueA20• at 24 V / rated valueA20• at 24 V / rated valueA20• at 40 / rated valueA20• at 400 V / rated valueA20• at 400 V / rated valueA20• at 400 V / rated valueKW4• at 400 V / rated value	• at 110 V / rated value	А	2.1
• at 110 V / rated valueA12• with 3 current paths in series / at DC-1-• at 24 V / rated valueA20• at 110 V / rated valueA20• with 1 current path / at DC-3 / at DC-5-• at 24 V / rated valueA20• at 110 V / rated valueA20• at 110 V / rated valueA20• at 110 V / rated valueA20• at 24 V / rated valueA20• with 2 current paths in series / at DC-3 / at DC-5-• at 24 V / rated valueA20• at 110 V / rated valueA20• at 40 V / rated valueA20• at 40 V / rated valueA20• at 400 V / rated valueKW4• at 400 V / rated valueVar0• at 400 V / rated valueVar0<	• with 2 current paths in series / at DC-1		
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• at 24 V / rated valueA20• at 110 V / rated valueA20• with 1 current path / at DC-3 / at DC-5-• at 24 V / rated valueA20• at 110 V / rated valueA0.1• with 2 current paths in series / at DC-3 / at DC-5-• at 24 V / rated valueA20• at 110 V / rated valueA20• at 110 V / rated valueA20• at 110 V / rated valueA20• at 24 V / rated valueA20• at 24 V / rated valueA20• at 24 V / rated valueA20• at 110 V / rated valueA20• at AC-2 / at 400 V / rated valueA20• at AC-2 / at 400 V / rated valueKW4• at AC-3• at 400 V / rated valuekW4.5• at 400 V / rated valuevar0• at 400 V / rated value <td< td=""><td>• at 110 V / rated value</td><td>А</td><td>12</td></td<>	• at 110 V / rated value	А	12
• at 110 V/ rated valueA20• with 1 current path / at DC-3 / at DC-5A20• at 24 V / rated valueA20• with 2 current paths in series / at DC-3 / at DC-5-• at 24 V / rated valueA20• at 24 V / rated valueA20• at 110 V / rated valueA20• at 110 V / rated valueA20• at 24 V / rated valueA20• at AC-2 / at 400 V / rated valueA20• at AC-2 / at 400 V / rated valueKW4• at AC-3• at 400 V / rated valueKW4.5• at 600 V / rated valueKW5.5• at 600 V / rated valueVar0• at 200 V / rated valueVar0• at 400 V / rated value <t< td=""><td>• with 3 current paths in series / at DC-1</td><td></td><td></td></t<>	• with 3 current paths in series / at DC-1		
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• at 24 V/ rated valueA20• with 2 current paths in series / at DC-3 / at DC-5• at 24 V/ rated valueA20• at 110 V/ rated valueA0.35• with 3 current paths in series / at DC-3 / at DC-5• at 24 V/ rated valueA20• at 10 V / rated valueA20• at AC-2 / at 400 V / rated valueA20• at AC-2 / at 400 V / rated valueKW4• at AC-2 / at 400 V / rated valuekW4• at AC-2 / rated valueKW4• at AC-2 / rated valueKW4• at AC-3• at 400 V / rated valueKW4• at 250 V / rated valueKW4• at 200 V / rated valueVare0• at 400 V / rated valueVare0<	• at 110 V / rated value	А	20
• at 110 V/ rated valueA0.1• with 2 current paths in series / at DC-3 / at DC-5A20• at 24 V/ rated valueA0.35• with 3 current paths in series / at DC-3 / at DC-5• at 24 V/ rated valueA20• at 24 V/ rated valueA20• at 24 V/ rated valueA20• at 110 V/ rated valueA20• at 110 V/ rated valueA20• at AC-2 / at 400 V/ rated valueA20• at AC-2 / at 400 V/ rated valuekWW4• at AC-2 / at 400 V/ rated valuekWW4• at AC-3• at 400 V / rated valuekWW4• at 400 V / rated valuekWW4• at 250 V / rated valuekWW5• at 200 V / rated valuevar0• at 200 V / rated valuevar0• at 200 V / rated valuevar0• at 400 V / rated valuevar0 </td <td>• with 1 current path / at DC-3 / at DC-5</td> <td></td> <td></td>	• with 1 current path / at DC-3 / at DC-5		
with 2 current paths in series / at DC-3 / at DC-5I• at 24 V / rated valueA20• at 110 V / rated valueA0.35• with 3 current paths in series / at DC-3 / at DC-5• at 24 V / rated valueA20• at 24 V / rated valueA20• at 110 V / rated valueA20• at AC-2 / at 400 V / rated valueA20• at AC-3• at 400 V / rated valueKW4• at 600 V / rated valueKW4• at 600 V / rated valueKW5.5• at 230 V / rated valueVar0• at 230 V / rated valueVar0• at 600 V / rated va	• at 24 V / rated value	А	20
• at 24 V / rated valueA20• at 110 V / rated valueA0.35• with 3 current paths in series / at DC-3 / at DC-5• at 24 V / rated valueA20• at 24 V / rated valueA20• at 110 V / rated valueA20• at AC-2 / at 400 V / rated valueKW4• at AC-2 / at 400 V / rated valueKW4• at 400 V / rated valueKW4• at 400 V / rated valueKW4.5• at 400 V / rated valueKW4.5• at 690 V / rated valueKW4.5• at 230 V / rated valueKW4• at 230 V / rated valueVar0• at 690 V / rated valueVar0• at 69	• at 110 V / rated value	А	0.1
• at 110 V / rated valueA0.35• with 3 current paths in series / at DC-3 / at DC-5A20• at 24 V / rated valueA20• at 24 V / rated valueA20• at 110 V / rated valueKW4• at AC-2 / at 400 V / rated valueKW4• at AC-2 / at 400 V / rated valueKW4• at 400 V / rated valueKW4.5• at 400 V / rated valueKW4.5• at 400 V / rated valueKW5.5• at 690 V / rated valueKW5.5• at 230 V / rated valueVar0• at 230 V / rated valueVar0• at 690 V / rated valueVar0•	• with 2 current paths in series / at DC-3 / at DC-5		
with 3 current paths in series / at DC-3 / at DC-5A20• at 24 V / rated valueA20• at 10 V / rated valueA20Service powerKW4• at AC-2 / at 400 V / rated valueKW4• at AC-3KW4• at 400 V / rated valueKW4.• at 400 V / rated valueKW4.5• at 400 V / rated valueKW5.5• at 690 V / rated valueKW5.5• at 230 V / rated valueVar0• at 230 V / rated valueVar0• at 690 V / rated valueVar	• at 24 V / rated value	А	20
• at 24 V / rated valueA20• at 10 V / rated valueA20Service powerA20• at AC-2 / at 400 V / rated valueKW4• at AC-3KW4• at 400 V / rated valueKW4• at 400 V / rated valueKW4.5• at 400 V / rated valueKW5.5• at 690 V / rated valueKW4• at 690 V / rated valueKW4• at 690 V / rated valueKW4• at 690 V / rated valueKW6• at 400 V / rated valueVar0• at 230 V / rated valueVar0• at 690	• at 110 V / rated value	А	0.35
• at 110 V / rated valueA20Service powerA20• at AC-2 / at 400 V / rated valueKW4• at AC-3KW4• at 400 V / rated valueKW4• at 500 V / rated valueKW4.5• at 690 V / rated valueKW5.5• at 690 V / rated valueKW4• at 690 V / rated valueKW4• at 690 V / rated valueKW6• at 690 V / rated valueKW6• at 690 V / rated valueVar0• at 230 V / rated valueVar0• at 690 V / rated valueVar0• other comparison of the operating frequency1/h1,000	• with 3 current paths in series / at DC-3 / at DC-5		
Service powerKWKW• at AC-2 / at 400 V / rated valuekW4• at AC-3kW4• at 400 V / rated valuekW4• at 500 V / rated valuekW4.5• at 690 V / rated valuekW5.5• at AC-4 / at 400 V / rated valuekW4• at 230 V / rated valuekW4• at 230 V / rated valuevar0• at 400 V / rated valuevar0• at 690 V / rated valuevar0 <td>• at 24 V / rated value</td> <td>А</td> <td>20</td>	• at 24 V / rated value	А	20
• at AC-2 / at 400 V / rated valuekW4• at AC-3kW4• at 400 V / rated valuekW4• at 500 V / rated valuekW4.5• at 690 V / rated valuekW5.5• at AC-4 / at 400 V / rated valuekW4• at C-4 / at 400 V / rated valuekW4• at C-4 / at 400 V / rated valuekW4• at C-4 / at 400 V / rated valuevar0• at 230 V / rated valuevar0• at 230 V / rated valuevar0• at 690 V / rated	• at 110 V / rated value	А	20
• at AC-3Image: constraint of the second	Service power	_	
• at 400 V / rated valuekW4• at 500 V / rated valuekW4.5• at 690 V / rated valuekW5.5• at AC-4 / at 400 V / rated valuekW4• at 230 V / rated valuevar0• at 400 V / rated valuevar0• at 400 V / rated valuevar0• at 690 V / rated valuevar	• at AC-2 / at 400 V / rated value	kW	4
• at 500 V / rated value4.5• at 690 V / rated value6.WW• at AC-4 / at 400 V / rated value6.WW• at AC-4 / at 400 V / rated value6.WW• at 230 V / rated value9.0• at 230 V / rated value9.0• at 400 V / rated value9.0• at 690 V / rated value9.0• at 690 V / rated value1.0• at 690 V / rated value9.0• at 690 V / rated value9.0• at 690 V / rated value9.0• at 690 V / rated value1.0• at 690 V / rated value9.0• at 690	• at AC-3		
• at 690 V / rated valuekW5.5• at AC-4 / at 400 V / rated valuekW4Operating reactive power / at AC-6bVV• at 230 V / rated valuevar0• at 400 V / rated valuevar0• at 690 V / rated valuevar0• at 690 V / rated valuevar0• at 690 V / rated value1/h10,000Off-load operating frequency1/h10,000	• at 400 V / rated value	kW	4
• at AC-4 / at 400 V / rated valuekW4Operating reactive power / at AC-6bVar• at 230 V / rated valuevar• at 230 V / rated valuevar• at 400 V / rated valuevar• at 690 V / rated valuevar• off-load operating frequency1/h• witching frequency1/h	• at 500 V / rated value	kW	4.5
Operating reactive power / at AC-6b       Image: Comparison of the comparison of	• at 690 V / rated value	kW	5.5
• at 230 V / rated valuevar0• at 400 V / rated valuevar0• at 690 V / rated valuevar0Off-load operating frequency1/h10,000Switching frequencyCC	• at AC-4 / at 400 V / rated value	kW	4
• at 400 V / rated valuevar0• at 690 V / rated valuevar0Off-load operating frequency1/h10,000Switching frequencyII	Operating reactive power / at AC-6b		
• at 690 V / rated valuevar0Off-load operating frequency1/h10,000Switching frequency1/h10,000	• at 230 V / rated value	var	0
Off-load operating frequency     1/h     10,000       Switching frequency     1/h     10,000	• at 400 V / rated value	var	0
Switching frequency	• at 690 V / rated value	var	0
	Off-load operating frequency	1/h	10,000
• at AC-1 / according to IEC 60947-6-2 / maximum 1/h 1,000	Switching frequency		
	• at AC-1 / according to IEC 60947-6-2 / maximum	1/h	1,000

• at AC-2 / according to IEC 60947-6-2 / maximum	1/h	750
• at AC-3 / according to IEC 60947-6-2 / maximum	1/h	750
• at AC-4 / according to IEC 60947-6-2 / maximum	1/h	250

Control circuit:		
Design of activation of the operating mechanism		conventional
Type of voltage / of the controlled supply voltage	_	AC
control supply voltage frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Control supply voltage / 1		
• at 50 Hz / for AC		
rated value	V	230
• at 60 Hz / for AC		
rated value	V	230
Operating range factor control supply voltage rated value / of solenoid		
• at 50 Hz / for AC		0.8 1.1
• at 60 Hz / for AC		0.85 1.1
Apparent pull-in power / of the solenoid / for AC	V·A	27
Apparent holding power / of the solenoid / for AC	V·A	4.2
Power factor inductive		
• at pull-in power of the coil		0.8
<ul> <li>at holding power of the coil</li> </ul>		0.25

# Auxiliary circuit:

Product extension / auxiliary switch		Yes
Contact reliability / of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
Number of NC contacts / for auxiliary contacts		
<ul> <li>instantaneous switching</li> </ul>		1
lagging switching		0
Number of NO contacts / for auxiliary contacts		
<ul> <li>instantaneous switching</li> </ul>		0
leading switching		0
Operating current / of the auxiliary contacts		
• at AC-12 / maximum	А	10
• at AC-15		
• at 230 V	А	10
• at 400 V	А	3
• at DC-12		
• at 48 V	А	6

• at 60 V	А	6
• at 110 V	А	3
• at 220 V	А	1
• at DC-13		
• at 24 V	А	6
• at 48 V	А	2
• at 60 V	А	2
• at 110 V	А	1
• at 220 V	А	0.3

#### Short-circuit:

### Design of the fuse link

• for short-circuit protection of the auxiliary switch / required
• for short-circuit protection of the main circuit
• at type of coordination 1 / required

• at type of coordination 2 / required

fuse gL/gG: 10 A

gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20A

built in orientationIdealverticalType of fixing/fixationScrew and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022Type of fixing/fixation / Series installationIdealWidthImm45WidthImm57.5DepthImm72distance, to be maintained, to the ranks assemblyImm0·backwardsImm0·backwardsImm6·backwardsImm6·backwardsImm6·backwardsImm6·backwardsImm0·backwardsImm6·backwards	Installation/mounting/dimensions:			
Type of fixing/fixation / Series installationImage: Fixing fixing to DIN EN 50022Type of fixing/fixation / Series installationYesWidthMmm45HeightMm7.5DepthMm72distance, to be maintained, to the ranks assemblyImage: Fixing	built in orientation		vertical	
Widthmm45Heightmm57.5Depthmm72distance, to be maintained, to the ranks assemblymm0• forwardsmm0• backwardsmm0• backwardsmm6• downwardsmm6• sidewardsmm0• forwardsmm6• backwardsmm6• downwardsmm6• backwardsmm6• backwardsmm6• forwardsmm6• backwardsmm6• backw	Type of fixing/fixation			
Heightnmm57.5Depthnmm72distance, to be maintained, to the ranks assemblyr• forwardsnmm0• backwardsnmm0• upwardsnmm6• downwardsnmm6• sidewardsnmm0• backwardsnmm6• sidewardsnmm6• backwardsnmm6• backwardsnmm6• backwardsnmm6• backwardsnmm6• backwardsnmm6• backwardsnmm6• upwardsnmm6• upwardsnmm<	Type of fixing/fixation / Series installation		Yes	
Depthmm72distance, to be maintained, to the ranks assembly• forwardsmm• backwardsmm• backwardsmm• backwardsmm• downwardsmm• downwardsmm• sidewardsmm• forwardsmm• backwardsmm• b	Width	mm	45	
distance, to be maintained, to the ranks assemblyImm• forwardsmm0• backwardsmm0• upwardsmm6• downwardsmm0• sidewardsmm0• sidewardsmm0• forwardsmm6• forwardsmm6• backwardsmm6• backwardsmm6• backwardsmm6• upwardsmm6• upwardsmm6• downwardsmm6• downwardsmm6• sidewardsmm6• sidewardsmm6• sidewardsmm6• sidewardsmm6• sidewardsmm6• sidewardsmm6• sidewardsmm6	Height	mm	57.5	
• forwardsnmm0• backwardsnmm0• upwardsnmm6• downwardsnmm6• sidewardsnmm0• distance, to be maintained, to earthed partrmm6• forwardsnmm6• backwardsnmm6• backwardsnmm6• upwardsnmm6• downwardsnmm6• downwardsnmm6• sidewardsnmm6• sidewardsnmm6• sidewardsnmm6• sidewardsnmm6• sidewardsnmm6• sidewardsnmm6	Depth	mm	72	
• backwardsnmm0• upwardsnmm6• downwardsnmm6• sidewardsnmm0• distance, to be maintained, to earthed part• forwardsnmm6• backwardsnmm6• backwardsnmm6• backwardsnmm6• backwardsnmm6• backwardsnmm6• downwardsnmm6• sidewardsnmm6• sidewards <th>distance, to be maintained, to the ranks assembly</th> <th></th> <th></th>	distance, to be maintained, to the ranks assembly			
• upwardsmm6• downwardsmm6• sidewardsmm0distance, to be maintained, to earthed part-• forwardsmm6• backwardsmm0• upwardsmm6• upwardsmm6• downwardsmm6• downwardsmm6• sidewardsmm6• sidewardsmm6• sidewardsmm6• sidewardsmm6• sidewardsmm6• sidewardsmm6• sidewardsmm6	• forwards	mm	0	
· downwardsmm6· sidewardsmm0distance, to be maintained, to earthed part· forwardsmm6· backwardsmm0· upwardsmm6· downwardsmm6· sidewardsmm6· backwardsmm6· upwardsmm6· backwardsmm6· backwardsmm6· backwardsmm6	backwards	mm	0	
• sidewardsmm0distance, to be maintained, to earthed part• forwardsmm6• backwardsmm0• upwardsmm6• downwardsmm6• sidewardsmm6• sidewardsmm6• sidewardsmm6• sidewardsmm6	• upwards	mm	6	
distance, to be maintained, to earthed partmm• forwardsmm• backwardsmm• backwardsmm• upwardsmm• downwardsmm• sidewardsmm•	downwards	mm	6	
• forwardsmm6• backwardsmm0• upwardsmm6• downwardsmm6• sidewardsmm6• sidewardsmm6	• sidewards	mm	0	
• backwardsmm0• upwardsmm6• downwardsmm6• sidewardsmm6• tidewardsmm6• tidewardsmm6	distance, to be maintained, to earthed part			
• upwardsmm6• downwardsmm6• sidewardsmm6distance, to be maintained, conductive elementsT6	forwards	mm	6	
· downwardsmm6· sidewardsmm6distance, to be maintained, conductive elementsEE	backwards	mm	0	
• sidewards mm 6 distance, to be maintained, conductive elements	• upwards	mm	6	
distance, to be maintained, conductive elements	downwards	mm	6	
	• sidewards	mm	6	
• forwards mm 6	distance, to be maintained, conductive elements			
	• forwards	mm	6	
• backwards mm 6	backwards	mm	6	

• upwards	mm	6
downwards	mm	10
• sidewards	mm	6
Commontioner		
Connections:		
design of the electrical connection		
• for main current circuit		screw-type terminals
for auxiliary and control current circuit	-	screw-type terminals
Type of the connectable conductor cross-section		
for main contacts		
• unifilar		2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2), 2x 4 mm2
stranded wire		2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2), 2x 4 mm2
stranded wire		
with conductor end processing		2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2)
at AWG-conductors / for main contacts		2x (20 16), 2x (18 14), 2x 12
for auxiliary contact		
• solid		2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2), 2x 4 mm2
stranded wire		
with wire end processing		2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2)
<ul> <li>for AWG conductors / for auxiliary contacts</li> </ul>		2x (20 16), 2x (18 14), 2x 12
Certificates/approvals:		
verification of suitability		CE / UL / CSA / CCC
Safety:		
B10 value / with high demand rate		
according to SN 31920		1,000,000
T1 value / for proof test interval or service life	-	
according to IEC 61508	а	20
Proportion of dangerous failures		
with low demand rate / according to SN 31920	%	75
<ul> <li>with high demand rate / according to SN 31920</li> </ul>	%	75
Failure rate (FIT value) / with low demand rate		
according to SN 31920	FIT	50
Protection against electrical shock		finger-safe

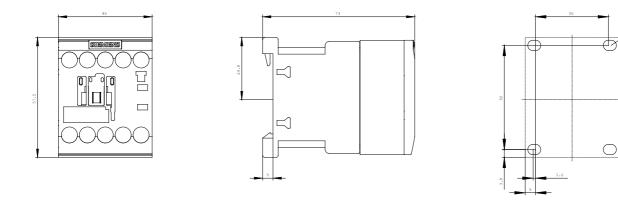
Further information:

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

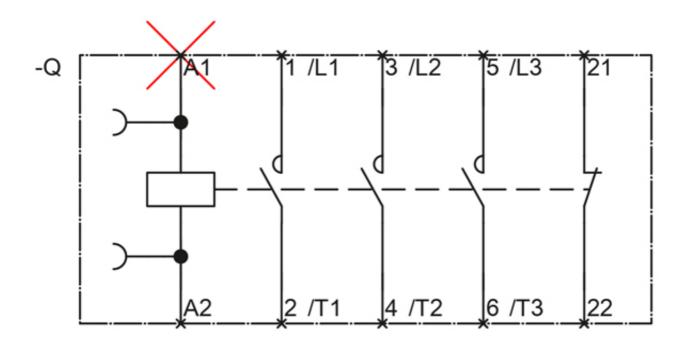
Global Industry Mall (Online ordering system) http://www.siemens.com/industrial-controls/mall

#### Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT2016-1AP02/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RT2016-1AP02



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last change:

May 8, 2010